

## Message Text

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PAGE 01 STATE 180251  
ORIGIN NEA-10

INFO OCT-01 ISO-00 SOE-02 OES-09 DOE-15 /037 R

DRAFTED BY NEA/IRN:MJOHNSON:MRC  
APPROVED BY NEA/IRN:HPRECHT  
DOE:LDIVONE

-----063451 180126Z /66

R 172136Z JUL 78  
FM SECSTATE WASHDC  
TO AMEMBASSY TEHRAN

UNCLAS STATE 180251

E.O. 11652: N/A

TAGS: ENRG, TPHY, IR

SUBJECT: WIND ENERGY AND STATE OF ART REQUEST

REF: A) TEHRAN 5502 B) TEHRAN 6422

1. PARAS 1 THROUGH 4 CONTAIN REPLY BY LOUIS DIVONE/DOE/  
ENERGY TECHNOLOGY IN RESPONSE TO SCIATT REQUEST FOR  
INFORMATION. REGRET DOE NEVER RECEIVED EARLIER CABLE  
(REF A). DIVONE WOULD BE DELIGHTED TO MEET WITH DR.  
DARIUSH MODARESS. DOE RECOMMENDS AMERICAN WIND ENERGY

ASSOCIATION AS KEY CONTACT RATHER THAN WESA IN PASADENA  
BECAUSE AWEA IS MUCH MORE ACTIVE AND ITS MEMBERSHIP  
COMPRISES MOST OF SMALL SYSTEMS IN OPERATION. AWEA ALSO  
HAS WASHINGTON REPRESENTATIVE, MR. BEN WOLFF, 1001  
CONNECTICUT AVE., (202) 466-4641.

2. DOE STRONGLY RECOMMENDS DR. MODARESS VISIT ROCKY FLAT  
PLANT AT GOLDEN, COLORADO, WHERE TESTING OF COMMERCIAL  
MACHINES IS UNDERWAY AND OPERATION OF MACHINES IN THE 1  
UNCLASSIFIED

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PAGE 02 STATE 180251

TO 40 KW RANGE COULD BE OBSERVED. ROCKY FLATS AND AWEA  
REPRESENT INTEGRATED KNOWLEDGE OF ALL SMALL SYSTEMS.  
IN ADDITION, SEVERAL SMALL MANUFACTURERS AND TEST MACHINES  
EXIST IN THE NEW ENGLAND AREA AND A SIDE TRIP AFTER  
GRUMMAN COULD INCLUDE; ENERTECH, NORTHWIND, NATURAL POWER,  
U. OF MASSACHUSETTS, PINSON ENERGY AND WTG ENERGY.  
HOWEVER, MOST INFORMATION AND VIEWS OF MANY OF THE

MACHINES COULD BE ACCOMPLISHED AT ONE STOP AT ROCKY FLATS. AFTER ROCKLY FLATS, DR. MODARESS COULD VISIT SANDIA, ALBURQUERQUE VIA AMARILLO WITH DRIVE TO USDA, BUCHLAND, TEXAS FOR VIEW OF SMALL MACHINE AGRICULTURAL TEST SITE. PROGRAM COULD INCLUDE SIDE TRIP TO CLAYTON, NEW MEXICO WHERE FIRST LARGE 124 FOOT DIAMETER, 200 KW MACHINE IS IN TEST OPERATION WITH MUNICIPAL POWER COMPANY. (SEE PARA 6.)

3. FOR OBSERVATIONS OF LARGE MACHINE DIVONE RECOMMENDS GE, HAMILTON STANDARD AND KAMAN AEROSPACE, IN ADDITION TO NASA.

4. DOE IS VERY INTERESTED IN POTENTIAL EXPERIMENTS INVOLVING USE OF WIND POWER IN IRAN. HOWEVER, CAUTION IS ADVISED REGARDING SELECTION OF TYPE OR QUANTITY OF ANY MACHINES. SINCE MANY ARE STILL IN A HIGHLY EXPERIMENTAL STAGE, VARIATION IN THE MANUFACTURERS' QUALITY IS HIGH AND THUS, WITHOUT CARE IN PLANNING, QUALITY CONTROL AND PRE-TEST RELIABILITY MIGHT BE JEOPARDIZED. DIVONE WOULD BE PLEASED TO PROVIDE APPROPRIATE ADVICE.

5. WITH REFERENCE TO CONVERSATIONS WITH NANCY JOHNSON, DATA ON PHOTOVOLTAIC COMPANIES AND KEY PERSONNEL WILL FOLLOW BY JULY 18. DATA ON EXISTING UNCLASSIFIED

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PAGE 03 STATE 180251

SITES AND CONTACTS IN THE FIELD OF MUNICIPAL SOLID WASTES FOR ELECTRIC CONVERSION, AS REQUESTED BY DR. OSTADHOSSEINI WILL ALSO FOLLOW.

6. FOLLOWING ARE POSSIBLE CONTACTS AS DEVELOPED BY DIVONE AND JOHNSON:

NATURAL POWER, INC.  
RICHARD KATZENBERG  
PRESIDENT  
FRANCESTOWN TURNPIKE  
NEW BOSTON, NH 03070  
(603) 487-2456

U. OF MASS.  
DR. DUANE CROMACK  
PRINCIPAL INVESTIGATOR  
MECHANICAL ENGINEERING DEPT.  
AMHERST, MA 01003  
(413) 545-2756

PINSON ENERGY CORP.  
HERMAN M. DREES

PRESIDENT  
P.O. BOX 7  
MARSTONS MILLS MA 02648  
(617) 477-2913

WTG ENERGY SYSTEMS  
ALLEN SPAULDING  
DIRECTOR  
ANGOLA NY 14006  
(716) 549-5544

ENERTECH CORP.  
ROBERT SHERWIN  
VICE PRESIDENT  
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PAGE 04 STATE 180251

BOX 420 RIVER ROAD  
NORWICH VT 05055  
(802) 649 1145

NORTHWIND POWER CO. INC.  
DONALD MAYER  
PRESIDENT  
P.O. BOX 315  
WARREN VT 05674  
(802) 496-2955

DOE ROCKY FLATS PLANT  
TERRY HEALY  
WIND SYSTEMS PROGRAM  
ROCKWELL INTERNATIONAL  
P.O. BOX 464  
GOLDON CO 80401  
(303) 497-4470

SANDIA LABORATORIES  
ALBUQUERQUE NM 87115  
RICHARD BRAASCH  
SUPERVISOR, ADVANCED ENERGY PROJECTS.

--

ED WULFF  
HAMILTON STANDARD  
1125 15TH STREE"NW

WASHINGTON DC.  
(202) 785-7473

BILL BATESOLE  
MANAGER, WIND ENERGY PROGRAMS  
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PAGE 05 STATE 180251

KAMAN AEROSPACE CORP.  
OLD WINDSOR ROAD  
BLOOMFIELD CT 06002  
(202) 242-446L, X 1735

GE  
BOBBY THORPE  
VALLEY FORGE PA

CHRISTOPHER

NOTE BY OC/T: TEHRAN 5502 WAS SENT DIRECT TO DOE BY THE  
ORIGINATOR (TEHRAN).

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NNN

## Message Attributes

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**Channel Indicators:** n/a  
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**Copy:** SINGLE  
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**Decaption Date:** 01 jan 1960  
**Decaption Note:**  
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**Disposition Approved on Date:**  
**Disposition Case Number:** n/a  
**Disposition Comment:**  
**Disposition Date:** 01 jan 1960  
**Disposition Event:**  
**Disposition History:** n/a  
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**Executive Order:** N/A  
**Errors:** N/A  
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**Original Handling Restrictions:** n/a  
**Original Previous Classification:** n/a  
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**Review Content Flags:**  
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**Review Event:**  
**Review Exemptions:** n/a  
**Review Media Identifier:**  
**Review Release Date:** N/A  
**Review Release Event:** n/a  
**Review Transfer Date:**  
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**SAS ID:** 1982985  
**Secure:** OPEN  
**Status:** NATIVE  
**Subject:** WIND ENERGY AND STATE OF ART REQUEST  
**TAGS:** ENRG, TPHY, IR  
**To:** TEHRAN  
**Type:** TE  
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**Review Markings:**  
Sheryl P. Walter  
Declassified/Released  
US Department of State  
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